

Title (en)
SURROUND SOUND VIRTUALIZER AND METHOD WITH DYNAMIC RANGE COMPRESSION

Title (de)
SURROUND-SOUND-VIRTUALISIERER UND VERFAHREN MIT DYNAMIKUMFANG-KOMPRIMIERUNG

Title (fr)
VIRTUALISEUR DE SON SURROUND ET PROCÉDÉ AVEC COMPRESSION DE PLAGE DYNAMIQUE

Publication
EP 2374288 B1 20180214 (EN)

Application
EP 09796876 A 20091201

Priority
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• US 12264708 P 20081215

Abstract (en)
[origin: WO2010074893A1] Method and system for generating output signals for reproduction by two physical speakers in response to input audio signals indicative of sound from multiple source locations including at least two rear locations. Typically, the input signals are indicative of sound from three front locations and two rear locations (left and right surround sources). A virtualizer generates left and right surround outputs useful for driving front loudspeakers to emit sound that a listener perceives as emitting from rear sources. Typically, the virtualizer generates left and right surround outputs by transforming rear source inputs in accordance with a head- related transfer function. To ensure that virtual channels are well heard in the presence of other channels, the virtualizer performs dynamic range compression on rear source inputs. The dynamic range compression is preferably accomplished by amplifying rear source inputs or partially processed versions thereof in a nonlinear way relative to front source inputs.

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